Determination of Rangeland Health for the Allensworth Allotment #65057

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these Standards.

Field assessment worksheets and other available data which evaluate the local indicators, were completed for this allotment. Based on the assessments, it is my determination that the Public Lands within the Allensworth Allotment #65057 meet the Upland Sites Standard and (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard. There are Public Land riparian areas on this allotment in Pasture A, this Standard applies to this pasture.

/s/ T. R. KREAGER

09/08/2003

Assistant Field Manager

Date

Standards of Public Land Health Evaluation of 65057 ALLENSWORTH Allotment [04/10/2003]

The Roswell Field Office conducted rangeland health assessments at five study sites within the Allensworth Allotment No. 65057. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area		UPLAND			BIOTIC		RIPARIAN		
or Assessment Area	Meets	Monitor an Indicator	Does Not Meet	Meets	Meets Monitor Does Not Indicator Meet		Meets	Monitor an Indicator	Does Not Meet
65057-A1- D099	X			X			X	*	
65057-B4- D100	X			X			N/A		
65057-C5- D101	X			X			N/A		
65057-D7- D102	X			X			N/A		
65057-RHA	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for the Allensworth allotment #65057; 10 of these assessed soil/site stability, 11 assessed hydrologic functions and 13 assessed biotic integrity. These qualitative assessments along with quantitative information from long-term monitoring studies on four study areas on the allotment were utilized to assess the rangeland health of the public land within the allotment. These quantitative evaluations were performed by the Roswell Field office staff starting in the early 1980's. These included ground and vegetative cover and composition, production, frequency, and ecological condition as calculated from these collections which have been scheduled approximately every 5 years.

An additional quallitative assessment was completed for a Gyp Upland SD-3 site in Pasture A1 that differed from the established studies in the same type site. The soils in this area are classified as Holloman-Gypsum land (Hp) and typically occur just above drainages on slopes of 1-2%. These soils have exposed gypsum outcrops and are moderately deep. The vegetation that occurs within this site is typical of the description for the Gyp Upland ecological site guide. Alkali sacaton is the dominant species. Most of the Gyp Upland SD-3 sites that occur on this allotment and throughout the Field Office

area have slopes of 3-5% and are more shallow. On these areas the alkali sacton component of vegetation community is diminished or non-existent, this is likely due to the shallow soils and diminished water holding capacity of the soils.

While drought over the past three years has had an impact on these sites, the assessments of the indicators range from Moderate to Slight to None.

Wildlife - The four pastures are relatively small and heavy utilization by livestock could occur on the fragile gyp soils. Need to closely monitor the numbers and duration of grazing in the small pastures. Of significance is Pasture A with Commanche Draw spring and associated riparian habitat, and Pasture C with a large prairie dog colony located on public and private lands.

Monitoring will continue on the allotment and the attributes which were rated as Moderate will continue to be reviewed to detect changes that may occur.

In the professional opinion of the Assessment Team, the public land within the allotment meets the Upland and Biotic Standards. The Riparian Standard applies to Pasture A, Commanche Draw.

Recommendations: Wildlife and TE Species - Pasture C, protect the prairie dog colony from control and further habitat disturbance. Pasture D, protect the riparian and aquatic habitat in Commanche Draw from heavy grazing pressure. Conduct occassional prescribed burns in Sacaton and Commanche Draw to enhance habitat diversity (during time period of non-nesting for grassland bird species).

RFOs	Upland	and Biotic Standa	rd Asses	ssment S	umma	ary '	Workshe	et
		SITE 650)57-A1-	D099				
Legal L	and Desc	NWNE 12 0110S 0260E Meridian 23		Ac	reage	650		
	Ecosite			Photo 7	Гакеп	Y		
W	atershed	13060007010 GOPHER						
C	bservers		О	bservation	Date			
County So	il Survey	NM666 CHAVES SOUTH		Soil Var/T	Гахаd			
Soil I	Map Unit	HrC	S	oil Taxon l	Name	HOI	LOMAN	
Text	ure Class	NM666 L		Soil l	Phase	HOLLOMAN- GYPSUM LAN		
Texture	Modifier	NM666 LOAM						
	rved Avg Annual cipitation			Observed Avg Growing Season Precipitation				
	A Annual 9.28			NOAA Growing Season Precipitation				5.95
NOAA Av	g Annual cipitation	12.08	X	A Avg Gro	- 1	- 106/		10.67
	nces and mal Use:							
Part 2. Att	ributes aı	nd Indicators						
				re from Eco ion/Ecolog				
Attribute	Indicator	Indicators		Moderate to Extreme	Mode	erate	Slight to Moderate	None to Slight
S H	Rills							X
Comments:								
SH	Water Fl	ow Patterns					X	
Comments:								
SH	Pedestals	s and/or Terracettes			X			
Comments:								
SH	Bare Gro	ound					X	

Comments:				
SH	Gullies		X	
Comments:				
S	Wind-scoured, Blowouts, and/or Deposition Areas			X
Comments:				
Н	Litter Movement		X	
Comments:				
SHB	Soil Surface Resistance to Erosion		X	
Comments:				
SHB	Soil Surface Loss or Degradation		X	
Comments:				
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X
Comments:				
SHB	Compaction Layer			X
Comments:				
В	Functional/Structural Groups		X	
Comments:				
В	Plant Mortality/Decadence			X
Comments:				
НВ	Litter Amount	X		
Comments:				
В	Annual Production	X		
Comments:	Lower end of range			
В	Invasive Plants	X		
Comments:				
В	Reproductive Capability of Perennial Plants		X	
Comments:				
S	Physical/Chemical/Biological Crusts		X	
Comments:	Broken in Swales			

В	Wildlife Habitat				X						
Comments:	A grassland habitat type with cacti, lack of forb species due originates on private land and significant. Riparian area alon Saltcedar encroachment but nesting habitat for birds of presidents.	to drough flows ont g Comma ot very de	nt. Comman to public la nche Draw	nche Sprin nd. Aquati in vicinity	g with poo c habitat is y of spring	ls S					
В	Wildlife Populations				X						
Comments:	No specific wildlife information. Species of concern include pronghorn antelope, birds of prey, grassland bird species, aquatic species in Commanche Draw. Fish and invertebrate surveys have been conducted, data on file.										
В	Special Status Species Habitat					X					
Comments:	Potential habitat for Pecos sunflower along Commanche Draw Nesting										
В	Special Status Species Populations					X					
C	N.T. 4										
Part 3. Sun A. Indicator attributes be	Summary - Each of the indication. An indicator is placed in	tors are a									
Part 3. Sun A. Indicator attributes be	nmary Summary - Each of the indica	tors are a									
Part 3. Sun A. Indicator attributes be	nmary Summary - Each of the indica	tors are a									
Part 3. Sun A. Indicator attributes be each of the Standard Attribute	nmary Summary - Each of the indica	tors are as	y (columns Moderate to) above an	d summed Slight to	None to					
Part 3. Sun A. Indicator attributes be each of the Standard Attribute S	Summary - Each of the indication. An indicator is placed in Standard Attributes.	tors are as a category	Moderate to Extreme) above an	Slight to Moderate	None to Slight					
Part 3. Sun A. Indicator attributes be each of the	Summary - Each of the indicatelow. An indicator is placed in Standard Attributes.	tors are as a category Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight					

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	2	9
Biotic		0	3	10

Site Notes: Range site is located on uplands and does not include significant draw bottom ecological site, Sacaton Draw and Commanche Draw.

		SITE 650)57-l	B4-I	D100				
Legal La	nd Desc	NWSW 11 0110S 026 Meridian 23	0E		Ac	creage	0		
	Ecosite				Photo '	Taken	Y		
Wa	atershed	13060007010 GOPHE	R						
Ol	oservers	SPAIN/NAVARRO		C	bservation	n Date	04/	11/2003	
Cou	-	NM666 CHAVES SOUTH			Soil Var/	Taxad			
Soil M	Iap Unit	HrC		S	oil Taxon	Name	НО	LLOMAN	-
Texture Class NM666 L				Soil	Phase	HO GY	LLOMAN PSUM LA	- ND	
Texture N	Modifier	NM666 LOAM							
Observed Avg Annual Precipitation				Observe Growing S Precipi	eason				
	Annual ipitation	II II			NOAA Groson Precipi	_			
Prec	NOAA Avg Annual Precipitation		ľ		A Avg Groson Precipi				
Disturbar Anin	nces and nal Use:								
Part 2. Att	ributes a	and Indicators							
					e from Eco on/Ecolog	_		ence Areas	
Attribute	Indicate	ors	Extre		Moderate to Extreme	Mode	rate	Slight to Moderate	None to Slight
S H	Rills								X
Comments:									
SH	Water I	Flow Patterns						X	
Comments:									
SH	Pedesta	ls and/or Terracettes				X			
Comments:									
SH	Bare G	round						X	

RFOs Upland and Biotic Standard Assessment Summary Worksheet

Comments:					
SH	Gullies			X	
Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement				X
Comments:					
SHB	Soil Surface Resistance to Erosion		X		
Comments:					
SHB	Soil Surface Loss or Degradation		X		
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups			X	
Comments:					
В	Plant Mortality/Decadence			X	
Comments:					
НВ	Litter Amount			X	
Comments:					
В	Annual Production		X		
Comments:					
В	Invasive Plants		X		
Comments:	Gutierrezia scattered throughout	ut			
В	Reproductive Capability of Perennial Plants			X	
Comments:					
S	Physical/Chemical/Biological Crusts			X	
Comments:					

В	Wildlife Habitat				X						
Comments	Primarily gyp uplands with a habitat type.	ssociated g	gypsiferous	s vegetation	n. Grasslan	ıd					
В	Wildlife Populations				X						
Comments		No specific wildlife information. Species of concern include pronghorn ntelope and upladn game birds.									
В	Special Status Species Habitat					X					
Comments	Potential for prairie dog color	nization or	gyp sites.								
В	Special Status Species Populations					X					
Comments	None known to occur.										
Part 3. Su	mmary										
A. Indicato	C F 1 C/1 ' 1'										
attributes b	or Summary - Each of the indicular selow. An indicator is placed in Standard Attributes.										
attributes b	elow. An indicator is placed in										
attributes b	elow. An indicator is placed in	a category	y (columns Moderate) above an	d summed	for None					
attributes be each of the	elow. An indicator is placed in		y (columns								
attributes be each of the Standard	elow. An indicator is placed in	a category	y (columns Moderate to) above an	d summed Slight to	None to					
attributes be each of the Standard Attribute	elow. An indicator is placed in Standard Attributes.	a category Extreme	Moderate to Extreme) above an	Slight to Moderate	None to Slight					
attributes be each of the Standard Attribute	elow. An indicator is placed in Standard Attributes. Soil	Extreme 0	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight					
attributes beach of the Standard Attribute S	elow. An indicator is placed in Standard Attributes. Soil Hydrologic	Extreme 0 0	Moderate to Extreme 0	Moderate 3 3	Slight to Moderate 4 5	None to Slight 3					

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	3	7

Hydrologic	0	3	8
Biotic	0	4	9
Site Notes:			

Attribute Indicators Extreme to Extreme Siight to Moderate SI S H Rills Comments: Gyp uplands, grassland habitat affected by drought.	RFOs	Upland	l and Biotic Standa	rd A	sses	sment Su	ımma	ry '	Workshe	eet
Ecosite			SITE 650	057-0	C 5-I	D101				
Watershed 13060007010 GOPHER Observers SPAIN/NAVARRO Observation Date 04/10/2003 County Soil NM666 CHAVES SOIl Var/Taxad Soil Map Unit HrC Soil Taxon Name HOLLOMAN Texture Class NM666 L Texture Modifier NM666 LOAM Observed Avg Annual Precipitation NOAA Annual Precipitation NOAA Avg Annual Precipitation NOAA Avg Annual Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Attribute Indicators Extreme Moderate Extreme Moderate SI Sight to Moderate SI Sight to Moderate SI Gyp uplands, grassland habitat affected by drought.	Legal Lai	nd Desc		0E		Ac	creage	80		
Observers SPAIN/NAVARRO County Soil NM666 CHAVES Soil Var/Taxad Soil Map Unit HrC Soil Taxon Name HOLLOMAN Texture Class NM666 L Soil Phase HOLLOMAN-GYPSUM LANI Texture Modifier NM666 LOAM Observed Avg Growing Season Precipitation Precipitation NOAA Annual Precipitation NOAA Avg Annual Precipitation NOAA Avg Annual Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Attribute Indicators Extreme Moderate Extreme Texture Modifier NM666 LOAM Observed Avg Growing Season Precipitation NOAA Growing Season Precipitation NOAA Avg Growing Season Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Silight to Extreme Texture Moderate to Extreme Moderate Slight to Moderate Slight to Silight		Ecosite				Photo '	Taken	Y		
County Soil NM666 CHAVES SOUTH Soil Map Unit HrC Soil Taxon Name HOLLOMAN Texture Class NM666 L Soil Phase GYPSUM LANI Texture Modifier NM666 LOAM Observed Avg Annual Precipitation NOAA Annual Precipitation NOAA Avg Annual Precipitation Extreme Departure from Ecological Site Description/Ecological Reference Areas Attribute Indicators Extreme Moderate to Extreme To Extreme To Extreme To Extreme Sign to Extreme To Extreme Sign to Extreme To Extreme Sign	Wa	itershed	13060007010 GOPHE	ER						
Survey SOUTH Soil Map Unit HrC Soil Taxon Name HOLLOMAN Texture Class NM666 L Soil Phase HOLLOMAN-GYPSUM LANI Texture Modifier NM666 LOAM Observed Avg Annual Precipitation NOAA Annual Precipitation NOAA Annual Precipitation NOAA Avg Annual Precipitation NOAA Avg Annual Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Departure from Ecological Site Description/Ecological Reference Areas Attribute Indicators Extreme Moderate to Extreme To Moderate Sign t	Oł	oservers	SPAIN/NAVARRO		C	bservation	n Date	04/1	10/2003	
Texture Class NM666 L Soil Phase GYPSUM LAND Texture Modifier NM666 LOAM Observed Avg Annual Precipitation NOAA Annual Precipitation NOAA Avg Growing Season Precipitation Season Precipitation NOAA Avg Growing Season Precipitation NOAA Avg Growing Season Precipitation Season Precipitation Season Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Departure from Ecological Site Description/Ecological Reference Areas Moderate to Moderate Slight to Moderate Streem Moderate Sight to Moderate Sight to Extreme Sight to Moderate Sight to Sight to Moderate Sight	Cou				Soil Var/Taxad		Taxad			
Texture Modifier NM666 LOAM Observed Avg Annual Precipitation NOAA Annual Precipitation NOAA Avg Growing Season Precipitation NOAA Avg Annual Precipitation Season Precipitation NOAA Avg Annual Precipitation Season Precipitation NOAA Avg Growing Season Precipitation Season Precipit	Soil M	ap Unit	HrC		S	oil Taxon	Name	НО	LLOMAN	
Observed Avg Annual Precipitation NOAA Annual Precipitation NOAA Annual Precipitation NOAA Avg Annual Precipitation NOAA Avg Annual Precipitation NOAA Avg Annual Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Departure from Ecological Site Description/Ecological Reference Areas Attribute Indicators Extreme Moderate to Extreme Moderate Silight to Moderate Silight to Extreme Silight to Moderate Silight to	Textu	Texture Class NM666 L				Soil	Phase			
Annual Precipitation NOAA Annual Precipitation NOAA Annual Precipitation NOAA Avg Annual Precipitation NOAA Avg Annual Precipitation NOAA Avg Annual Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Departure from Ecological Site Description/Ecological Reference Areas Attribute Indicators Extreme Moderate to Extreme Moderate Sight to Moderate Sight to Extreme Sight to Extreme Sight to Extreme Sight to Extreme Sight to Moderate Sight to Moderate Sight to Extreme Sight to Moderate Sight to Moderate Sight to Moderate Sight to Moderate Sight to Extreme Sight to Moderate Sight to Moder	Texture N	Jodifier	NM666 LOAM							
NOAA Annual Precipitation NOAA Avg Season Precipitation NOAA Avg Annual Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Departure from Ecological Site Description/Ecological Reference Areas Attribute Indicators Extreme Moderate to Extreme Moderate Slight to Moderate SI SI Moderate SI Moderate SI SI Moderate SI SI Moderate SI		Annual			(Growing S	eason			
Precipitation NOAA Avg Annual Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Departure from Ecological Site Description/Ecological Reference Areas Attribute Indicators Extreme Moderate to Extreme Moderate To Extreme Slight to Moderate Slight					NOAA Growing					
Annual Precipitation Disturbances and Animal Use: Part 2. Attributes and Indicators Departure from Ecological Site Description/Ecological Reference Areas Attribute Indicators Extreme Moderate to Extreme to Moderate Slight to Moderate SI SI SH Rills Comments: Gyp uplands, grassland habitat affected by drought.	Preci	pitation	****		Season Precipitation		_			
Disturbances and Animal Use: Part 2. Attributes and Indicators Departure from Ecological Site Description/Ecological Reference Areas Attribute Indicators Extreme Moderate to Extreme Moderate Slight to Moderate SI Slight to Extreme SI SH Rills Comments: Gyp uplands, grassland habitat affected by drought.		Annual			II					
Attribute Indicators Extreme Departure from Ecological Site Description/Ecological Reference Areas Moderate to Moderate Extreme Slight to Moderate State										
Attribute Indicators Extreme Slight to Extreme SH Rills Supplements: Gyp uplands, grassland habitat affected by drought.	Part 2. Attı	ributes a	and Indicators							
Attribute Indicators Extreme to Extreme Signt to Moderate SI										
Comments: Gyp uplands, grassland habitat affected by drought.	Attribute	Indicato	ors	Extre		to		Slight to		None to Slight
	SH	Rills								X
	Comments:	Gyp up	lands, grassland habita	t affe	cted	by drough	t.			
S H Water Flow Patterns X	SH	Water F	Flow Patterns						X	
Comments:	Comments:					<u>'</u>			<u> </u>	
S H Pedestals and/or Terracettes X	SH	Pedesta	ls and/or Terracettes				X			
Comments:	Comments:								<u> </u>	
S H Bare Ground X	SH	Bare G	round						X	

Comments:					
SH	Gullies				X
Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement			X	
Comments:					
SHB	Soil Surface Resistance to Erosion		X		
Comments:					
SHB	Soil Surface Loss or Degradation		X		
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups			X	
Comments:					
В	Plant Mortality/Decadence			X	
Comments:					
НВ	Litter Amount		X		
Comments:					
В	Annual Production		X		
Comments:					
В	Invasive Plants		X		
Comments:					
В	Reproductive Capability of Perennial Plants			X	
Comments:					
S	Physical/Chemical/Biological Crusts			X	
Comments:	Scattered but broken throughou	ıt			

Ъ	W71110 W 1 1				37	
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:	Species of concern include prodog colony is extensive and cr was GPSed this year, no pop.	osses ont	o private la	and within		
В	Special Status Species Habitat				X	
Comments:	Prairie dog colony.					
В	Special Status Species Populations				X	
Comments:	Expanding prairie dog colony	with no p	op. estima	te at this ti	me.	
Part 3. Sun	ımary					
attributes be	Summary - Each of the indicate clow. An indicator is placed in a Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	3	3	4
Н	Hydrologic	0	0	4	4	3
В	Biotic	0	0	5	7	1

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	3	7

Hydrologic	0	4	7
Biotic	0	5	8
Site Notes:			

	1						- J		
		SITE 650	057-I)7-J	D102				
Legal La	and Desc	SWNE 9 0110S 0260 Meridian 23	E		Ac	creage	480	1	
	Ecosite				Photo '	Taken	Y		
W	atershed	13060007010 GOPHI	ER						
О	bservers	SPAIN/NAVARRO		C	Observation	n Date	04/	10/2003	
Соι	-	NM666 CHAVES SOUTH			Soil Var/Taxad				
Soil N	Iap Unit	HrC		S	oil Taxon	Name	НО	LLOMAN	
Textu	ıre Class	NM666 L			Soil	Phase	HO GY	LLOMAN PSUM LA	[- .ND
Texture 1	Modifier	NM666 LOAM							
	ved Avg Annual ipitation				Observed Avg Growing Season Precipitation		\mathbf{n}		
	Annual ipitation					NOAA Growing on Precipitation		9	
	AA Avg Annual ipitation		- 11		A Avg Groson Precipi	_			
Disturba Anii	nces and mal Use:								
Part 2. Att	ributes a	and Indicators							
					e from Eco ion/Ecolog				
Attribute	Indicate	ors	Extre	eme	Moderate to Extreme	Mode	rate	Slight to Moderate	None to Sligh
S H	Rills								X
Comments:	-		11			<u> </u>		1	<u> </u>
SH		Flow Patterns						X	
Comments:									
SH		ls and/or Terracettes				X			
Comments:									
SH	Bare Gi	round						X	

RFOs Upland and Biotic Standard Assessment Summary Worksheet

Comments:		
SH	Gullies	X
Comments:		
S	Wind-scoured, Blowouts, and/or Deposition Areas	X
Comments:		
Н	Litter Movement	X
Comments:		
SHB	Soil Surface Resistance to Erosion X	
Comments:		
SHB	Soil Surface Loss or Degradation	
Comments:		
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff X	
Comments:		
SHB	Compaction Layer	X
Comments:		
В	Functional/Structural Groups X	
Comments:		
В	Plant Mortality/Decadence	X
Comments:		
НВ	Litter Amount X	
Comments:		
В	Annual Production X	
Comments:		
В	Invasive Plants X	
Comments:		
В	Reproductive Capability of Perennial Plants	X
Comments:		
S	Physical/Chemical/Biological Crusts X	
Comments:		

В	Wildlife Habitat					X		
Comments:	Gyp uplands, grassland habitat affected by drought.							
В	Wildlife Populations					X		
Comments:	No specific wildlife information antelope.	on. Specie	es of coner	n primarily	pronghor	ı		
В	Special Status Species Habitat					X		
Comments:	None known to occur.							
В	Special Status Species Populations					X		
Comments:	None known to occur.							

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	3	3	4
Н	Hydrologic	0	0	3	4	4
В	Biotic	0	0	3	3	7

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	3	7
Hydrologic		0	3	8

Biotic	0	3	10
Site Notes:			

Upland	and Biotic Standa	rd	Asses	sment Si	ımma	ry '	Workshe	eet
	SITE 6	50	57-RI	HA				
nd Desc	NENE 1 0110S 0260I Meridian 23	Ξ		Acreage				
Ecosite				Photo '	Taken	Y		
tershed	13060007010 GOPHI	ΞR						
servers	SPAIN/NAVARRO		C	bservation	n Date	04/1	10/2003	
Survey	NM666 CHAVES SOUTH			Soil Var/	Taxad			
ap Unit	Нр		S	oil Taxon	Name	НО	LLOMAN	
e Class	NM666			Soil	Phase			
1odifier	NM666 LOAM							
Annual				Growing S	eason			
Annual	9.28		NOAA Growing Season Precipitation		5		5.95	
Annual	12	.08	NOAA Avg Growing Season Precipitation		10.6			
ibutes a	and Indicators							
Indicato	ors	Ex	treme	Moderate to Extreme	Mode	rate	Slight to Moderate	None to Slight
Rills								X
Water F	low Patterns						X	
Pedesta	ls and/or Terracettes						X	
Bare Gr	ound				X			
	Ecosite atershed oservers Survey ap Unit re Class Modifier red Avg Annual pitation AA Avg Annual pitation al Use: ributes a lindicate Rills Water F	SITE 6 and Desc NENE 1 0110S 0260I Meridian 23 Ecosite attershed 13060007010 GOPHI OSERVERS SPAIN/NAVARRO Survey NM666 CHAVES SOUTH Survey NM666 LOAM Survey NM66	SITE 650 and Desc Meridian 23 Ecosite Servers SPAIN/NAVARRO Survey SOUTH SO	SITE 65057-RI and Desc Meridian 23 Ecosite Intershed I 3060007010 GOPHER Descrivers SPAIN/NAVARRO CO Survey NM666 CHAVES SOUTH Sup Unit Hp S The Class NM666 Modifier NM666 LOAM Modifier NM66	SITE 65057-RHA and Desc NENE 1 0110S 0260E Meridian 23 Ecosite Photo of the stershed 13060007010 GOPHER Deservers SPAIN/NAVARRO Observation Survey SOUTH Soil Taxon of the Class NM666 CHAVES SOUTH Soil Taxon of the Class NM666 CHAVES Growing Sequence of the Class NM666 Soil Modifier NM666 LOAM Observed Growing Sequence of the Class NM666 Soil Modifier NM666 LOAM Observed Growing Sequence of the Class NM666 Soil Modifier NM666 LOAM Observed Growing Sequence of the Class NM666 Soil Modifier NM666 LOAM Observed Growing Sequence of the Class NM666 Soil Modifier NM666 LOAM Observed Growing Sequence of the Class NM666 Soil Modifier NM666 LOAM Observed Growing Sequence of the Class NM666 Soil Moderate of the Class NM666 So	SITE 65057-RHA and Desc Meridian 23 Ecosite Photo Taken Itershed I3060007010 GOPHER Servers SPAIN/NAVARRO Observation Date Survey SOUTH Soil Taxon Name The Class NM666 CHAVES SOIL Phase Modifier NM666 LOAM The Avg Annual pitation AA Avg Annual pitation AA Avg Annual pitation AA Avg Annual pitation Cess and hal Use: Tibutes and Indicators SITE 65057-RHA Acreage Photo Taken Boil Taxon Name Soil Var/Taxad Soil Var	SITE 65057-RHA Mathematical National Processing Servers SPAIN/NAVARRO Observation Date O4/1000 O4/1000	NENE 1 0110S 0260E Meridian 23

Comments:				
SH	Gullies			X
Comments:				
S	Wind-scoured, Blowouts, and/or Deposition Areas			X
Comments:				
Н	Litter Movement		X	
Comments:				
SHB	Soil Surface Resistance to Erosion		X	
Comments:				
SHB	Soil Surface Loss or Degradation		X	
Comments:				
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X	
Comments:				
SHB	Compaction Layer			X
Comments:				
В	Functional/Structural Groups	X		
Comments:				
В	Plant Mortality/Decadence			X
Comments:				
НВ	Litter Amount	X		
Comments:				
В	Annual Production	X		
Comments:				
В	Invasive Plants			X
Comments:				
В	Reproductive Capability of Perennial Plants			X
Comments:				
S	Physical/Chemical/Biological Crusts		X	
Comments:				

	X			Wildlife Habitat	В
				See Pasture A assessment.	Comments:
X				Wildlife Populations	В
				See Pasture A assessment.	Comments:
X				Special Status Species Habitat	В
				See Pasture A assessment.	Comments:
X				Special Status Species Populations	В
		e Draw.	Comanche	Potential Sunflower pop. in Co	Comments:
		e Draw.	Comanche	Special Status Species Habitat See Pasture A assessment. Special Status Species Populations	B Comments:

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

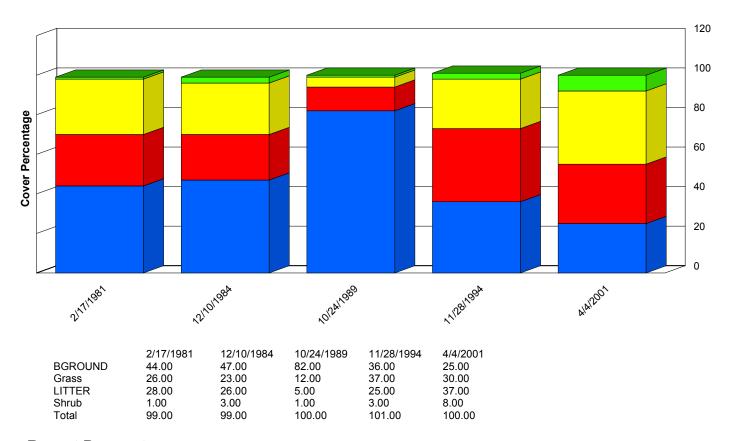
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	5	4
Н	Hydrologic	0	0	2	6	3
В	Biotic	0	0	3	3	7

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	2	9
Biotic		0	3	10

Site Notes: This is a non-permanent study in A1 pasture. Veg Id # 5802.

Ground Cover Trends



Shrub LITTER Grass BGROUND

Report Parameters

SITE NAME LIKE 65057-A1-D099 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2001

Functional / Structural Groups

Report Parameters

 SITE NAME LIKE
 65057-A1-D099

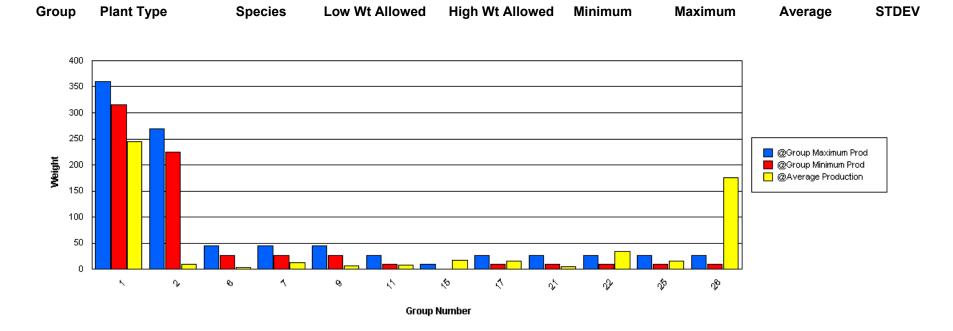
 ON/AFTER
 10/01/1979

 ON/BEFORE
 09/30/2001

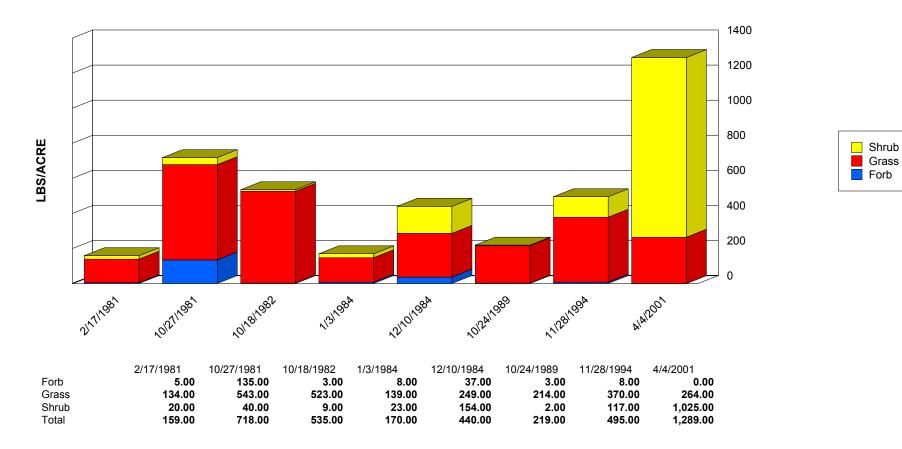
MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	12.00	318.00	122.13	91.25
1	Grass	SCBR2	315	360	33.00	322.00	122.38	82.09
2	Grass	BOER4	225	270	0.00	42.00	9.25	13.44
6	Grass	SPAI	27	45	0.00	13.00	3.50	5.16
7	Grass	ARIST	27	45	0.00	6.00	2.00	2.45
7	Grass	SPCR	27	45	0.00	35.00	10.60	13.57
8	Grass	PAOB	9	27	0.00	5.00	1.67	2.36
9	Grass	MUAR	27	45	0.00	20.00	6.29	7.15
11	Grass	ENDE	9	27	0.00	43.00	8.00	13.79
12	Grass	PAHA	9	18	0.00	3.00	0.83	1.21
15	Grass	TRPI2	0	9	0.00	47.00	17.00	18.61
16	Grass	AAGG	9	27	0.00	6.00	1.20	2.40
17	Grass	ERPU8	9	27	0.00	33.00	14.57	14.00
17	Grass	SPNE	9	27	0.00	4.00	1.00	1.53
19	Forb	CROTO	9	27	0.00	3.00	0.71	1.03
21	Forb	ERTE13	9	27	0.00	3.00	0.50	1.12
21	Forb	LEMO2	9	27	0.00	17.00	4.25	7.36
22	Forb	AAFF	9	27	0.00	37.00	13.17	14.60
22	Forb	PECTI	9	27	0.00	87.00	21.75	37.67
24	Forb	MEMU2	9	27	0.00	1.00	0.25	0.43
25	Shrub	ATCA2	9	27	13.00	17.00	15.00	2.00
26	Shrub	GUSA2	9	27	1.00	144.00	34.83	50.42
26	Shrub	OPUNT	9	27	0.00	1,000.00	140.75	326.37
28	Shrub	PRGL2	0	0	0.00	10.00	2.00	4.00



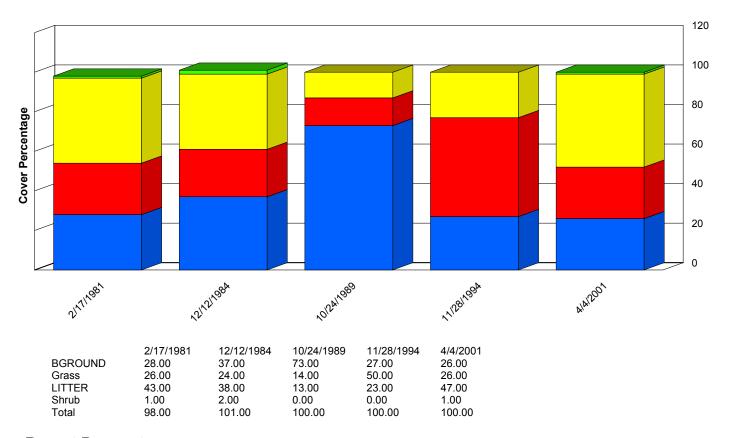
Production Lbs/Acre Trends



Report Parameters

SITE NAME LIKE 65057-A1-D099 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2001

Ground Cover Trends



Shrub
LITTER

Grass
BGROUND

Report Parameters

SITE NAME LIKE 65057-B4-D100 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2001

Functional / Structural Groups

Report Parameters

 SITE NAME LIKE
 65057-B4-D100

 ON/AFTER
 10/01/1979

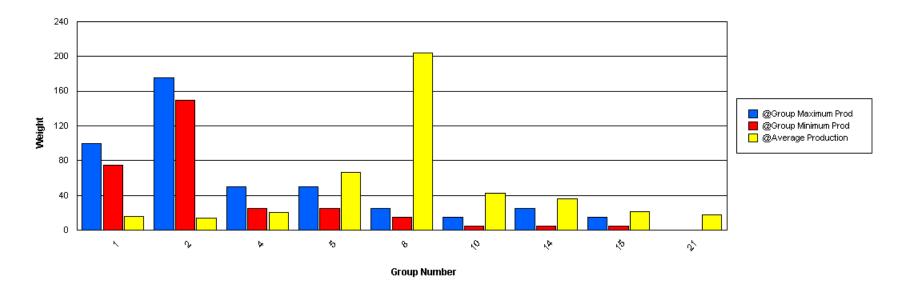
 ON/BEFORE
 09/30/2001

MIN LBS TO GRAPH 3

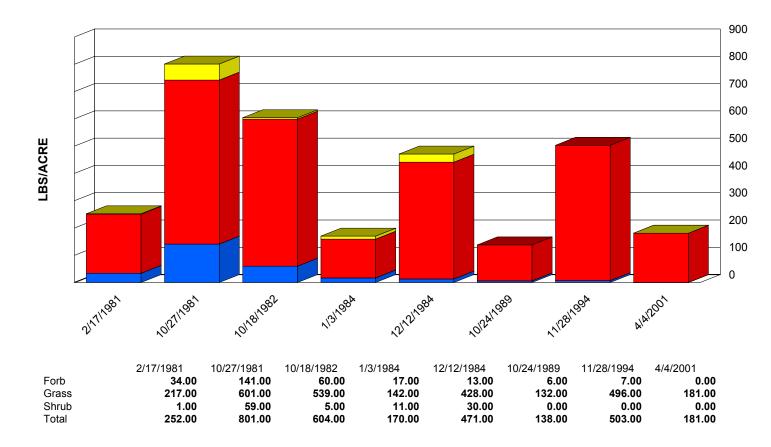
SELECTED ECOSITE 042CY006NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	SPAI	75	100	0.00	56.00	15.88	17.69
2	Grass	BOBR	150	175	7.00	13.00	10.00	3.00
2	Grass	BOER4	150	175	0.00	10.00	3.83	3.62
3	Grass	PARA2	15	25	0.00	6.00	2.00	2.83
4	Grass	BOGR2	25	50	0.00	2.00	0.50	0.76
4	Grass	SPCR	25	50	0.00	22.00	6.25	9.12
4	Grass	SPNE	25	50	0.00	38.00	13.83	15.75
5	Grass	ARIST	25	50	0.00	5.00	1.25	2.17
5	Grass	ERPU8	25	50	0.00	17.00	6.00	6.78
5	Grass	MUAR	25	50	0.00	25.00	7.71	9.07
5	Grass	SCBR2	25	50	8.00	117.00	51.63	34.26
6	Grass	AAGG	0	5	0.00	7.00	1.60	2.73
7	Grass	ENDE	5	15	0.00	6.00	1.67	2.21
8	Grass	HIMU2	15	25	30.00	398.00	204.25	117.67
9	Grass	PAOB	5	15	0.00	2.00	0.33	0.75
10	Grass	MUAR2	5	15	0.00	11.00	2.71	3.95
10	Grass	PAHA	5	15	0.00	39.00	12.20	15.14
10	Grass	SPCO4	5	15	0.00	2.00	0.50	0.87
10	Grass	TRPI2	5	15	0.00	124.00	26.83	44.65
14	Forb	AAFF	5	25	0.00	33.00	9.75	9.51
14	Forb	PECTI	5	25	0.00	61.00	26.75	27.27
15	Forb	CRJA2	5	15	0.00	18.00	4.50	7.79
15	Forb	ERTE13	5	15	0.00	8.00	4.00	3.54
15	Forb	LEMO2	5	15	0.00	42.00	11.75	17.58
15	Forb	LEPID	5	15	0.00	2.00	0.40	0.80
15	Forb	PENA	5	15	0.00	1.00	0.50	0.50

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
15	Forb	PPFF	5	15	0.00	1.00	0.20	0.40
15	Forb	SPCO	5	15	0.00	2.00	0.33	0.75
18	Shrub	OPUNT	5	15	0.00	1.00	0.20	0.40
21	Shrub	GUSA2	0	0	0.00	59.00	17.50	21.17



Production Lbs/Acre Trends



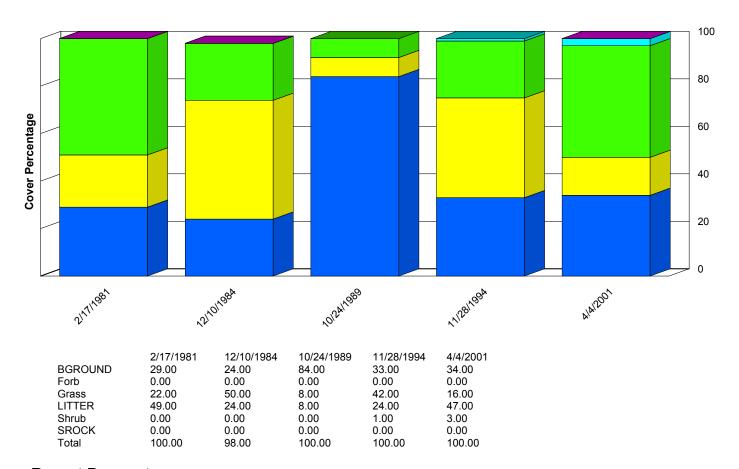
Shrub Grass

Forb

Report Parameters

SITE NAME LIKE 65057-B4-D100 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2001

Ground Cover Trends



SROCK
Shrub
LITTER
Grass

Forb
BGROUND

Report Parameters

SITE NAME LIKE 65057-C5-D101 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2001

Functional / Structural Groups

Report Parameters

 SITE NAME LIKE
 65057-C5-D101

 ON/AFTER
 10/01/1979

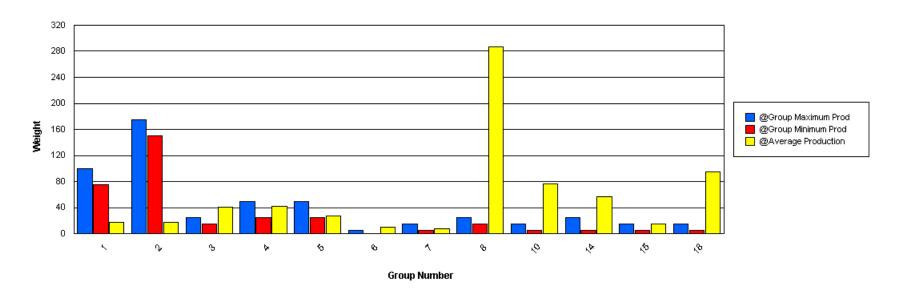
 ON/BEFORE
 09/30/2001

MIN LBS TO GRAPH 3

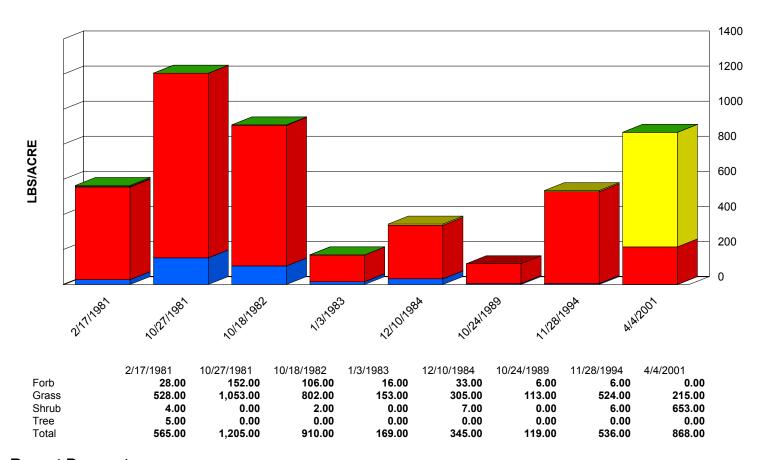
SELECTED ECOSITE 042CY006NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	SPAI	75	100	0.00	87.00	17.83	31.78
2	Grass	BOBR	150	175	0.00	38.00	7.67	13.88
2	Grass	BOER4	150	175	0.00	26.00	10.29	10.04
3	Grass	PARA2	15	25	0.00	121.00	40.33	57.04
4	Grass	BOGR2	25	50	0.00	4.00	1.00	1.73
4	Grass	SPCR	25	50	0.00	14.00	4.29	5.87
4	Grass	SPNE	25	50	0.00	168.00	36.75	54.42
5	Grass	ARIST	25	50	0.00	38.00	6.50	14.09
5	Grass	ERPU8	25	50	0.00	13.00	4.40	4.63
5	Grass	MUAR	25	50	0.00	12.00	3.00	4.56
5	Grass	SCBR2	25	50	3.00	28.00	13.50	9.66
6	Grass	AAGG	0	5	0.00	40.00	10.60	15.54
7	Grass	ENDE	5	15	2.00	30.00	7.75	8.67
8	Grass	HIMU2	15	25	52.00	624.00	287.00	216.34
10	Grass	MUAR2	5	15	0.00	20.00	6.67	9.43
10	Grass	PAHA	5	15	0.00	290.00	44.86	100.21
10	Grass	SPFL2	5	15	0.00	32.00	10.67	15.08
10	Grass	TRPI2	5	15	0.00	33.00	14.50	14.77
12	Forb	SELO	5	25	0.00	1.00	0.17	0.37
14	Forb	AAFF	5	25	0.00	30.00	14.25	9.97
14	Forb	CIRSI	5	25	0.00	46.00	15.33	21.68
14	Forb	EUPHO	5	25	0.00	2.00	1.00	1.00
14	Forb	HAGR	5	25	0.00	2.00	0.50	0.87
14	Forb	MENTZ	5	25	0.00	7.00	1.75	3.03
14	Forb	PECTI	5	25	0.00	96.00	24.00	41.57
15	Forb	CHAMA8	5	15	0.00	3.00	1.00	1.41

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
15	Forb	LEMO2	5	15	0.00	22.00	4.67	7.95
15	Forb	MACHA4	5	15	0.00	3.00	0.50	1.12
15	Forb	PPFF	5	15	0.00	6.00	2.67	2.75
15	Forb	SOEL	5	15	0.00	10.00	2.50	4.33
15	Forb	SPHAE	5	15	0.00	17.00	3.17	6.23
18	Shrub	OPUNT	5	15	0.00	645.00	94.57	224.72
19	Tree	YUEL	5	15	0.00	5.00	1.00	2.00



Production Lbs/Acre Trends



Tree

Shrub Grass

Forb

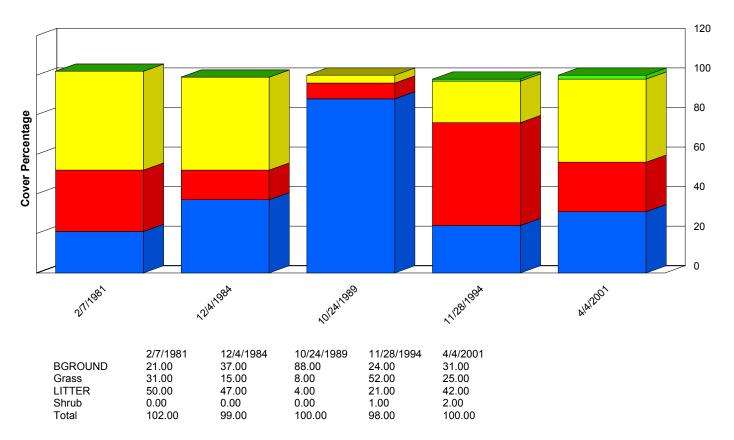
Report Parameters

 SITE NAME LIKE
 65057-C5-D101

 ON/AFTER
 10/01/1980

 ON/BEFORE
 09/30/2001

Ground Cover Trends



Shrub LITTER Grass BGROUND

Report Parameters

SITE NAME LIKE 65057-D7-D102 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2001

Functional / Structural Groups

Report Parameters

 SITE NAME LIKE
 65057-D7-D102

 ON/AFTER
 10/01/1979

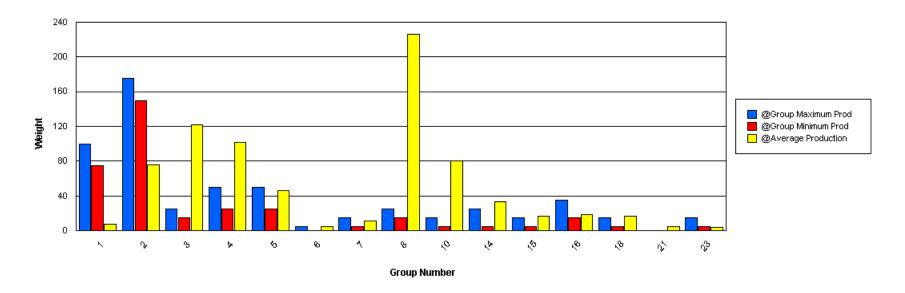
 ON/BEFORE
 09/30/2001

MIN LBS TO GRAPH 3

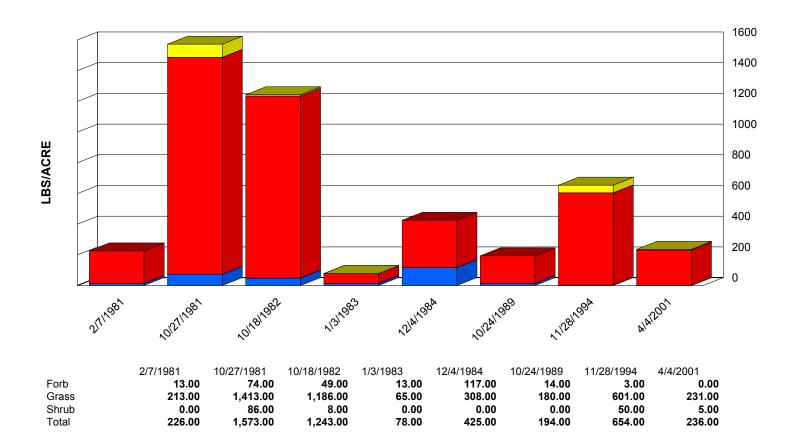
SELECTED ECOSITE 042CY006NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	SPAI	75	100	0.00	16.00	8.00	8.00
2	Grass	BOBR	150	175	0.00	48.00	23.50	17.10
2	Grass	BOER4	150	175	0.00	239.00	52.20	93.63
3	Grass	PARA2	15	25	0.00	366.00	122.00	172.53
4	Grass	BOGR2	25	50	0.00	74.00	12.83	27.36
4	Grass	SPCR	25	50	0.00	112.00	17.63	36.17
4	Grass	SPNE	25	50	0.00	304.00	71.13	94.20
5	Grass	ARIST	25	50	0.00	14.00	3.17	5.18
5	Grass	ERPU8	25	50	0.00	34.00	6.33	12.41
5	Grass	MUAR	25	50	0.00	39.00	6.57	13.26
5	Grass	SCBR2	25	50	0.00	112.00	30.57	34.85
6	Grass	AAGG	0	5	0.00	24.00	4.80	9.60
7	Grass	ENDE	5	15	0.00	49.00	11.67	17.86
8	Grass	HIMU2	15	25	0.00	950.00	225.88	288.52
10	Grass	PAHA	5	15	0.00	236.00	38.00	81.01
10	Grass	SPFL2	5	15	0.00	83.00	27.67	39.13
10	Grass	TRPI2	5	15	0.00	53.00	14.75	22.13
14	Forb	AAFF	5	25	0.00	116.00	22.86	38.81
14	Forb	HAGR	5	25	0.00	6.00	1.50	2.60
14	Forb	MENTZ	5	25	0.00	6.00	1.50	2.60
14	Forb	PECTI	5	25	0.00	31.00	7.75	13.42
15	Forb	ERTE13	5	15	0.00	1.00	0.33	0.47
15	Forb	HOGL2	5	15	0.00	2.00	0.67	0.94
15	Forb	LEMO2	5	15	0.00	23.00	9.00	10.03
15	Forb	PPFF	5	15	0.00	31.00	7.17	11.13
16	Shrub	EPHED	15	35	5.00	32.00	18.50	13.50

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
18	Shrub	OPUNT	5	15	0.00	68.00	17.00	29.44
21	Shrub	GUSA2	0	0	0.00	18.00	4.50	7.79
23	Shrub	HAPLO2	5	15	0.00	8.00	4.00	4.00



Production Lbs/Acre Trends



Shrub

Grass
Forb

Report Parameters

SITE NAME LIKE 65057-D7-D102 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2001

